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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/673,538		James Robert Durrant	DYOUP0204US	7488
7	590 06/18/2003		ě	
Don W Bulson Renner Otto Boisselle & Sklar 1621 Euclid Avenue 19th Floor			EXAMINER	
			ALEXANDER, LYLE	
Cleveland, OH	44115	•	ART UNIT	PAPER NUMBER
Cleveland, OH	44115		ART UNIT	PAPEI

DATE MAILED: 06/18/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	•				
	09/673,538	DURRANT, JAME	DURRANT, JAMES ROBERT				
Office Action Summary	Examiner	Art Unit					
	Lyle A Alexander	1743					
Th MAILING DATE of this communication app Peri df r Reply	ears n the cover	sheet with the correspondence ad	dress				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earmed patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, howev within the statutory minir will apply and will expire S cause the application to	er, may a reply be timely filed num of thirty (30) days will be considered timel IX (6) MONTHS from the mailing date of this or become ABANDONED (35 U.S.C. § 133).	y. ommunication.				
1)⊠ Responsive to communication(s) filed on 18 /	March 2003 and 1	3 June 2003					
· _ · · · · · · · · · · · · · · · · · ·	is action is non-fin						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims		·					
4)⊠ Claim(s) <u>1-21</u> is/are pending in the application	ı.	•					
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.	Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-7 and 9-21</u> is/are rejected.							
7)⊠ Claim(s) <u>8</u> is/are objected to							
8) ☐ Claim(s) are subject to restriction and/or Application Papers	r election requiren	nent.					
9)☐ The specification is objected to by the Examine	r.						
10) The drawing(s) filed on is/are: a) accep	oted or b)⊡ objecte	d to by the Examiner.					
Applicant may not request that any objection to the	e drawing(s) be held	in abeyance. See 37 CFR 1.85(a).					
11)☐ The proposed drawing correction filed on	is: a) approved	d b) disapproved by the Examin	er.				
If approved, corrected drawings are required in rep	oly to this Office acti	on.					
12) ☐ The oath or declaration is objected to by the Exa	aminer.						
Priority under 35 U.S.C. §§ 119 and 120	•						
13) Acknowledgment is made of a claim for foreign	priority under 35	U.S.C. § 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents	s have been recei	ved.					
2. Certified copies of the priority documents	2. Certified copies of the priority documents have been received in Application No						
Copies of the certified copies of the prior application from the International But See the attached detailed Office action for a list.	reau (PCT Rule 1	7.2(a)).	Stage				
14) ☐ Acknowledgment is made of a claim for domestic	-		l application)				
a) ☐ The translation of the foreign language pro 15)☐ Acknowledgment is made of a claim for domesti	visional applicatio	n has been received.	арриосполу.				
Attachment(s)	o priority under 30	7 3.3.0. 33 120 dilu/01 121.					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🗌	Interview Summary (PTO-413) Paper No Notice of Informal Patent Application (PT Other:					
0.0							

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Claim R j ctions - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-6 and 10-11are rejected under 35 U.S.C. 102(b) as being clearly anticipated by WO 96/00198.

WO 96/00198 teaches in appended claim 1 a biosensor comprising a nancyrstalline metal oxide semiconductor film surface and at least one protein immobilized on a portion of the film. Page 1 lines 1-3 teach use of the claimed titanium dioxide. In claim 2 zinc and zirconium oxides are taught as being the source of the metal oxide. The claimed phrase "without the use of non-physiological temperature" has been read meaning physiological temperatures are used. However, the Office maintains the method of intended use of the claimed device (e.g. the claimed physiological temperature) is of no patentable moment with respect to the pending device claims. Furthermore, Applicants have provided a 6/13/03 affidavit by Anthony Edward George Cass stating the experimental conditions of WO 96/00198 would result

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in approximately 8% of the proteins being active. The Office maintains approximately 8% activity is properly read on the instant claims.

Claims 1-3,5-7 and 9-21 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Ewart et al.

Ewart et al. teach a phosphorescence biosensor comprising a nanocrystaline metal oxide semiconductor film upon which proteins are immobilized. Column 5 lines 18+ teach zinc oxide and titanium dioxide nanoparticles. Column 4 lines 28+ teach multiple analytes and have been read on the claimed different proteins bound to different portions of the array. Column 17 teaches specific aspects of the optical waveguide. Column 6 lines 28+ teach room temperature, which has been read on the claimed "without the use of non-physiological temperature".

Allowable Subject Matter

Claim 8 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lyle A Alexander whose telephone number is 703-308-3893. The examiner can normally be reached on Monday, Wednesday and Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill Warden can be reached on 703-308-4037. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9319 for regular communications and 703-872-9311 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0651.

Lyle A Alexander Primary Examiner Art Unit 1743

June 13, 2003